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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS	20	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	21	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	23	MAR 02	GBFULL: New full-text patent database on STN
NEWS	24	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	25	MAR 03	MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS	JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:63969 CAPLUS
DN 126:85511
TI Isolation of 5'-untranslational region of trout Cyp1A1 gene
AU Roh, Yong Nam; Sheen, Yhun Yhong
CS College of Pharmacy, Ewha Woman's University, Seoul, 120-750, S. Korea
SO Archives of Pharmacal Research (1996), 19(6), 450-455
CODEN: APHRDQ; ISSN: 0253-6269
PB Pharmaceutical Society of Korea
DT Journal
LA English
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l1 and exonuclease
L4 15 L1 AND EXONUCLEASE

=> s l4 and nuclease
L5 5 L4 AND NUCLEASE

=> d l5 1-5

L5 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 1992:454576 BIOSIS
DN PREV199294095976; BA94:95976
TI CDNA CLONING SEQUENCING EXPRESSION AND POSSIBLE DOMAIN STRUCTURE OF HUMAN APEX **NUCLEASE** HOMOLOGOUS TO ESCHERICHIA-COLI **EXONUCLEASE** III.
AU SEKI S [Reprint author]; HATSUSHIKA M; WATANABE S; AKIYAMA K; NAGAO K; TSUTSUI K
CS DEP MOL BIOL, INST CELLULAR MOL BIOL, OKAYAMA UNIV MED SCH, 2-5-1 SHIKATA-CHO, OKAYAMA 700, JPN
SO Biochimica et Biophysica Acta, (1992) Vol. 1131, No. 3, pp. 287-299.
CODEN: BBACAQ. ISSN: 0006-3002.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 7 Oct 1992
Last Updated on STN: 8 Oct 1992

L5 ANSWER 2 OF 5 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 92231583 EMBASE
DN 1992231583
TI cDNA cloning, sequencing, expression and possible domain structure of human APEX **nuclease** homologous to Escherichia coli **exonuclease** III.
AU Seki S.; Hatsushika M.; Watanabe S.; Akiyama K.; Nagao K.; Tsutsui K.
CS Department of Molecular Biology, Inst. of Cellular/Molecular Biology, Okayama University Medical School, 2-5-1, Shikata-cho,Okayama 700, Japan
SO Biochimica et Biophysica Acta - Gene Structure and Expression, (1992) 1131/3 (287-299).
ISSN: 0167-4781 CODEN: BBGSD5
CY Netherlands
DT Journal; Article
FS 029 Clinical Biochemistry
LA English
SL English

L5 ANSWER 3 OF 5 MEDLINE on STN
AN 92329542 MEDLINE
DN PubMed ID: 1627644
TI cDNA cloning, sequencing, expression and possible domain structure of human APEX **nuclease** homologous to Escherichia coli **exonuclease** III.
AU Seki S; Hatsushika M; Watanabe S; Akiyama K; Nagao K; Tsutsui K

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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:14:17 ON 10 MAR 2005

=> FIL MEDLINE
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'MEDLINE' ENTERED AT 15:14:43 ON 10 MAR 2005

 FILE LAST UPDATED: 9 MAR 2005 (20050309/UP).  FILE COVERS 1950 TO DATE.

 On December 19, 2004, the 2005 MeSH terms were loaded.

 The MEDLINE reload for 2005 is now available.  For details enter HELP
 RLOAD at an arrow promt (=>).  See also:

    http://www.nlm.nih.gov/mesh/
    http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

 OLDMEDLINE now back to 1950.

 MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
 MeSH 2005 vocabulary.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> E HENIKOFF S/AU 25
E1            8     HENIKOFF L M/AU
E2            1     HENIKOFF L M JR/AU
E3          132 --> HENIKOFF S/AU
E4           40     HENIKOFF STEVEN/AU
E5            1     HENIN/AU
E6            4     HENIN A/AU
E7            4     HENIN AUDE/AU
E8            1     HENIN B/AU
E9            3     HENIN C/AU
E10         157     HENIN D/AU
E11          18     HENIN DOMINIQUE/AU
E12           1     HENIN E/AU
E13          33     HENIN F/AU
E14           2     HENIN FRANCOISE/AU
E15           1     HENIN GUERIN C/AU
E16          18     HENIN J/AU
E17          18     HENIN J M/AU
E18           5     HENIN J P/AU
E19           1     HENIN JEROME/AU
E20           1     HENIN LANDES D/AU
E21           3     HENIN M/AU
E22           1     HENIN M D/AU
E23           1     HENIN MARTA/AU
E24          15     HENIN N/AU
E25           4     HENIN O/AU

=> S (E3) AND 1980<=PY<=1998
            132 "HENIKOFF S"/AU
        6884261 1980<=PY<=1998
L1           95 ("HENIKOFF S"/AU) AND 1980<=PY<=1998

=> S (E3) AND 1980<=PY<=1998 AND (EXONUCLEASE III)
            132 "HENIKOFF S"/AU
        6884261 1980<=PY<=1998
           3917 EXONUCLEASE
           1704 EXONUCLEASES
           4766 EXONUCLEASE
                  (EXONUCLEASE OR EXONUCLEASES)
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        220819 III
           167 IIIS
        220908 III
                  (III OR IIIS)
           698 EXONUCLEASE III
                  (EXONUCLEASE(W)III)
L2           6 ("HENIKOFF S"/AU) AND 1980<=PY<=1998 AND (EXONUCLEASE III)

=> DIS L2 1- TI
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):Y

L2   ANSWER 1 OF 6     MEDLINE on STN
TI   Ordered deletions using exonuclease III.

L2   ANSWER 2 OF 6     MEDLINE on STN
TI   Ordered deletions using exonuclease III.

L2   ANSWER 3 OF 6     MEDLINE on STN
TI   Ordered deletions using exonuclease III.

L2   ANSWER 4 OF 6     MEDLINE on STN
TI   Ordered deletions for DNA sequencing and in vitro mutagenesis by
     polymerase extension and exonuclease III gapping of
     circular templates.

L2   ANSWER 5 OF 6     MEDLINE on STN
TI   Unidirectional digestion with exonuclease III in DNA
     sequence analysis.

L2   ANSWER 6 OF 6     MEDLINE on STN
TI   Unidirectional digestion with exonuclease III creates
     targeted breakpoints for DNA sequencing.


=> DIS L2 1- IBIB ABS
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 1.32 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2   ANSWER 1 OF 6     MEDLINE on STN
ACCESSION NUMBER:    97002661     MEDLINE
DOCUMENT NUMBER:     PubMed ID: 8850001
TITLE:               Ordered deletions using exonuclease III
                     .
AUTHOR:              Clark D; Henikoff S
CORPORATE SOURCE:    Fred Hutchinson Cancer Research Center, Howard Hughes
                     Medical Institute, Seattle, WA, USA.
SOURCE:              Methods in molecular biology (Clifton, N.J.),
                     (1996) 57 139-47.  Ref: 7
                     Journal code: 9214969. ISSN: 1064-3745.
PUB. COUNTRY:        United States
DOCUMENT TYPE:       Journal; Article; (JOURNAL ARTICLE)
                     General Review; (REVIEW)
                     (REVIEW, TUTORIAL)
LANGUAGE:            English
FILE SEGMENT:        Priority Journals
ENTRY MONTH:         199612
ENTRY DATE:          Entered STN: 19970128
                     Last Updated on STN: 19970128
                     Entered Medline: 19961210

L2   ANSWER 2 OF 6     MEDLINE on STN
ACCESSION NUMBER:    96281045     MEDLINE
DOCUMENT NUMBER:     PubMed ID: 8713883
TITLE:               Ordered deletions using exonuclease III
                     .
AUTHOR:              Clark D; Henikoff S
CORPORATE SOURCE:    Department of Biology, University of New Brunswick,
                     Fredericton, Canada.
```

SOURCE: Methods in molecular biology (Clifton, N.J.), **(1996)** 58 349-57.
Journal code: 9214969. ISSN: 1064-3745.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199610
ENTRY DATE: Entered STN: 19961022
Last Updated on STN: 19980206
Entered Medline: 19961010

L2 ANSWER 3 OF 6 MEDLINE on STN
ACCESSION NUMBER: 95005113 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7921037
TITLE: Ordered deletions using **exonuclease III**
.
AUTHOR: Clark D; **Henikoff S**
CORPORATE SOURCE: Basic Sciences Division, Fred Hutchinson Cancer Research Center, Seattle, WA.
SOURCE: Methods in molecular biology (Clifton, N.J.), **(1994)** 31 47-55. Ref: 7
Journal code: 9214969. ISSN: 1064-3745.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199411
ENTRY DATE: Entered STN: 19941222
Last Updated on STN: 19941222
Entered Medline: 19941118

L2 ANSWER 4 OF 6 MEDLINE on STN
ACCESSION NUMBER: 90272401 MEDLINE
DOCUMENT NUMBER: PubMed ID: 2190184
TITLE: Ordered deletions for DNA sequencing and in vitro mutagenesis by polymerase extension and **exonuclease III** gapping of circular templates.
AUTHOR: **Henikoff S**
CORPORATE SOURCE: Fred Hutchinson Cancer Research Center, Seattle, WA 98104.
CONTRACT NUMBER: GM29009 (NIGMS)
SOURCE: Nucleic acids research, **(1990 May 25)** 18 (10) 2961-6.
Journal code: 0411011. ISSN: 0305-1048.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199007
ENTRY DATE: Entered STN: 19900810
Last Updated on STN: 19980206
Entered Medline: 19900711

AB A simple method is described for generating nested deletions from any fixed point in a cloned inset. Starting with a single-stranded phagemid template, T4 DNA polymerase is used to extend an annealed primer. This leads to a fully double-stranded circular molecule with a nick or small gap just 5' to the primer. **Exonuclease III** initiates progressive digestion from the resulting 3' end. Removal of timed aliquots and digestion with a single-strand specific endonuclease leads to a series of linear nested fragments having a common end corresponding to the 5' end of the primer. These molecules are circularized and used to transform cells, providing large numbers of deletion clones with targeted breakpoints. The 6-step procedure involves successive additions to tubes, beginning with a single-stranded template and ending with transformation; no extractions, precipitations or centrifugations are needed. Results are comparable to those obtained with standard **Exonuclease III**-generated deletion protocols, but there is no requirement for

restriction endonuclease digestion or for highly purified double-stranded DNA starting material. This procedure provides a strategy for obtaining nested deletions in either direction both for DNA sequencing and for functional analysis.

L2 ANSWER 5 OF 6 MEDLINE on STN
ACCESSION NUMBER: 88121636 MEDLINE
DOCUMENT NUMBER: PubMed ID: 3323819
TITLE: Unidirectional digestion with **exonuclease III** in DNA sequence analysis.
AUTHOR: **Henikoff S**
SOURCE: Methods in enzymology, **(1987)** 155 156-65.
Journal code: 0212271. ISSN: 0076-6879.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198803
ENTRY DATE: Entered STN: 19900308
Last Updated on STN: 19900308
Entered Medline: 19880318

L2 ANSWER 6 OF 6 MEDLINE on STN
ACCESSION NUMBER: 84262487 MEDLINE
DOCUMENT NUMBER: PubMed ID: 6235151
TITLE: Unidirectional digestion with **exonuclease III** creates targeted breakpoints for DNA sequencing.
AUTHOR: **Henikoff S**
CONTRACT NUMBER: GM29009 (NIGMS)
SOURCE: Gene, **(1984 Jun)** 28 (3) 351-9.
Journal code: 7706761. ISSN: 0378-1119.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-J02527; GENBANK-K02461; GENBANK-X06286; GENBANK-Y00606
ENTRY MONTH: 198409
ENTRY DATE: Entered STN: 19900320
Last Updated on STN: 19970203
Entered Medline: 19840919

AB A method is described for the rapid generation and cloning of deletion derivatives well-suited for the sequencing of long stretches of DNA. This method is based on two useful features of **exonuclease III**: (1) processive digestion at a very uniform rate and (2) failure to initiate digestion at DNA ends with four-base 3'-protrusions. The method was applied to a 4570-bp Drosophila genomic DNA fragment cloned in the single-stranded phage vector M 13mp18. An ordered set of deletion clones was made by first cutting replicative form(RF) DNA with two restriction enzymes in the polylinker region of the vector between the Drosophila DNA and the sequencing primer binding site. One enzyme left a four-base 3'-protrusion that protected the remainder of the vector from **exonuclease III** attack, allowing unidirectional digestion of the insert sequence from the 5'-protruding end left by the other enzyme. Aliquots were removed at uniform intervals, treated with S1 nuclease, Klenow DNA polymerase, T4 DNA ligase, and then used to transfect competent cells. Most of the resulting clones derived from each aliquot were deleted to a predicted extent with only slight scatter, even for deletions of more than 4 kb. The method permits efficient isolation of clusters of deletion breakpoints within small preselected regions of large DNA segments, allowing nonrandom sequence analysis.

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---Logging off of STN---